Katja M Arndt

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2021780/publications.pdf

Version: 2024-02-01

54	2,386	304743	206112
papers	citations	22 h-index	48 g-index

54	54	54	2854
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Coiled Coil Domains: Stability, Specificity, and Biological Implications. ChemBioChem, 2004, 5, 170-176.	2.6	611
2	An in vivo library-versus-library selection of optimized proteinâ€“protein interactions. Nature Biotechnology, 1999, 17, 683-690.	17.5	182
3	Factors Influencing the Dimer to Monomer Transition of an Antibody Single-Chain Fv Fragmentâ€. Biochemistry, 1998, 37, 12918-12926.	2.5	144
4	Model and Simulation of Multivalent Binding to Fixed Ligands. Analytical Biochemistry, 1998, 261, 149-158.	2.4	135
5	Semirational design of Jun-Fos coiled coils with increased affinity: Universal implications for leucine zipper prediction and design. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8989-8994.	7.1	127
6	Photocontrol of Coiledâ€Coil Proteins in Living Cells. Angewandte Chemie - International Edition, 2010, 49, 3943-3946.	13.8	108
7	A heterodimeric coiled-coil peptide pair selected in vivo from a designed library- versus -library ensemble 1 1Edited by A. R. Fersht. Journal of Molecular Biology, 2000, 295, 627-639.	4.2	101
8	The first constant domain (CH1 and CL) of an antibody used as heterodimerization domain for bispecific miniantibodies. FEBS Letters, 1998, 422, 259-264.	2.8	76
9	Tandem Immobilized Metal-Ion Affinity Chromatography/Immunoaffinity Purification of His-tagged Proteinsâ€” Evaluation of Two Anti-His-Tag Monoclonal Antibodies. Analytical Biochemistry, 1998, 259, 54-61.	2.4	75
10	A dimeric bispecific miniantibody combines two specificities with avidity. FEBS Letters, 1998, 432, 45-49.	2.8	69
11	Helix-stabilized fv (hsfv) antibody fragments: substituting the constant domains of a fab fragment for a heterodimeric coiled-coil domain 1 1Edited by I. A. Wilson. Journal of Molecular Biology, 2001, 312, 221-228.	4.2	62
12	Positive Aspects of Negative Design:â€‰ Simultaneous Selection of Specificity and Interaction Stability. Biochemistry, 2007, 46, 4804-4814.	2.5	55
13	Comparison of In Vivo Selection and Rational Design of Heterodimeric Coiled Coils. Structure, 2002, 10, 1235-1248.	3.3	51
14	Selectional and Mutational Scope of Peptides Sequestering the Junâ€“Fos Coiled-Coil Domain. Journal of Molecular Biology, 2008, 381, 73-88.	4.2	49
15	Improved Stability of the Jun-Fos Activator Protein-1 Coiled Coil Motif. Journal of Biological Chemistry, 2007, 282, 23015-23024.	3.4	39
16	Standardization in Synthetic Biology. Methods in Molecular Biology, 2012, 813, 23-43.	0.9	38
17	Nucleotide exchange and excision technology (NExT) DNA shuffling: a robust method for DNA fragmentation and directed evolution. Nucleic Acids Research, 2005, 33, e117-e117.	14.5	36
18	Selectively infective phage (SIP) technology: scope and limitations. Journal of Immunological Methods, 1999, 231, 93-104.	1.4	35

#	Article	IF	Citations
19	Role of Hydrophobic and Electrostatic Interactions in Coiled Coil Stability and Specificity. Biochemistry, 2009, 48, 10380-10388.	2.5	34
20	Considerations in the Design and Optimization of Coiled Coil Structures. , 2007, 352, 35-70.		29
21	Modular adeno-associated virus (rAAV) vectors used for cellular virus-directed enzyme prodrug therapy. Scientific Reports, 2014, 4, 3759.	3.3	28
22	Efficient phage display of intracellularly folded proteins mediated by the TAT pathway. Protein Engineering, Design and Selection, 2011, 24, 473-484.	2.1	27
23	[17] Protein fusions to coiled-coil domains. Methods in Enzymology, 2000, 328, 261-282.	1.0	25
24	A user-friendly, low-cost turbidostat with versatile growth rate estimation based on an extended Kalman filter. PLoS ONE, 2017, 12, e0181923.	2.5	21
25	Targeting the câ€Myc coiled coil with interfering peptides. Journal of Peptide Science, 2008, 14, 1022-1031.	1.4	20
26	Long-range transcriptional interference inE. coliused to construct a dual positive selection system for genetic switches. Nucleic Acids Research, 2016, 44, e95-e95.	14.5	18
27	Strategies for the photo-control of endogenous protein activity. Current Opinion in Structural Biology, 2017, 45, 53-58.	5.7	14
28	Characterizing Transcriptional Interference between Converging Genes in Bacteria. ACS Synthetic Biology, 2019, 8, 466-473.	3.8	14
29	rAAV Engineering for Capsid-Protein Enzyme Insertions and Mosaicism Reveals Resilience to Mutational, Structural and Thermal Perturbations. International Journal of Molecular Sciences, 2019, 20, 5702.	4.1	14
30	iPEP: peptides designed and selected for interfering with protein interaction and function. Biochemical Society Transactions, 2008, 36, 1442-1447.	3.4	13
31	Exploring the Molecular Linkage of Protein Stability Traits for Enzyme Optimization by Iterative Truncation and Evolution. Biochemistry, 2012, 51, 4850-4867.	2.5	13
32	Improving the interaction of Mycâ€interfering peptides with Myc using molecular dynamics simulations. Journal of Peptide Science, 2009, 15, 5-15.	1.4	11
33	Improving coiled coil stability while maintaining specificity by a bacterial hitchhiker selection system. Journal of Structural Biology, 2014, 186, 335-348.	2.8	11
34	Free energy calculations of the interactions of câ€Junâ€based synthetic peptides with the câ€Fos protein. Biopolymers, 2012, 97, 899-909.	2.4	10
35	Controlling leucine-zipper partner recognition in cells through modification of aâ€“g interactions. Chemical Communications, 2014, 50, 6364-6367.	4.1	8
36	AnEscherichia colisystem for evolving improved light-controlled DNA-binding proteins. Protein Engineering, Design and Selection, 2015, 28, 293-302.	2.1	8

#	Article	IF	Citations
37	Selection of Peptides Interfering with Proteinâ€“Protein Interaction. Methods in Molecular Biology, 2009, 535, 263-291.	0.9	7
38	SynBioWaveâ€”a real-time communication platform for molecular and synthetic biology. Bioinformatics, 2010, 26, 2782-2783.	4.1	7
39	Nucleotide Exchange and Excision Technology DNA Shuffling and Directed Evolution. Methods in Molecular Biology, 2011, 687, 333-344.	0.9	7
40	Directional cloning of DNA fragments using deoxyinosine-containing oligonucleotides and endonuclease V. BMC Biotechnology, 2013, 13, 81.	3.3	7
41	Characterization and inhibition of AF10â€mediated interaction. Journal of Peptide Science, 2014, 20, 385-397.	1.4	7
42	[22] Selectively infective phage technology. Methods in Enzymology, 2000, 328, 364-388.	1.0	6
43	A General Method of Terminal Truncation, Evolution, and Re-Elongation to Generate Enzymes of Enhanced Stability. , 2007, 352, 275-304.		6
44	Detection of Incorporation of p-Coumaric Acid into Photoactive Yellow Protein Variants in Vivo. Biochemistry, 2019, 58, 2682-2694.	2.5	6
45	Light-Controlled Gene Switches in Mammalian Cells. Methods in Molecular Biology, 2012, 813, 195-210.	0.9	4
46	Analysis of Selected and Designed Chimeric D- and L-Î±-Helix Assemblies. Biomacromolecules, 2014, 15, 3296-3305.	5.4	3
47	Bacteriophageâ€Templated Assembly of Magnetic Nanoparticles and Their Actuation Potential. ChemNanoMat, 2021, 7, 942-949.	2.8	3
48	Directed Protein Evolution. Springer Protocols, 2008, , 631-656.	0.3	3
49	TAT hitchhiker selection expanded to folding helpers, multimeric interactions and combinations with protein fragment complementation. Protein Engineering, Design and Selection, 2013, 26, 225-242.	2.1	2
50	Selection of Proteinâ€“Protein Interactions of Desired Affinities with a Bandpass Circuit. Journal of Molecular Biology, 2019, 431, 391-400.	4.2	2
51	Protein Engineering. Springer Protocols, 2008, , 587-629.	0.3	2
52	Strategies for Enzymatic Inactivation of the Veterinary Antibiotic Florfenicol. Antibiotics, 2022, 11, 443.	3.7	2
53	Versatile DNA Fragmentation and Directed Evolution With Nucleotide Exchange and Excision Technology. , 2007, 352, 167-190.		1
54	Coiled Coil Domains: Stability, Specificity, and Biological Implications. ChemInform, 2004, 35, no.	0.0	0